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FILE 'HOME' ENTERED AT 15:58:33 ON 22 APR 2010
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=> FILE BIOSIS

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SINCE FILE TOTAL ENTRY SESSION 0.22 0.22

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=> S DELTA ADJ5 ADJ ELONGASE

144030 DELTA 0 ADJ5 613 ADJ

506 ELONGASE

L1 0 DELTA ADJ5 ADJ ELONGASE

(DELTA(W)ADJ5(W)ADJ(W)ELONGASE)

=> DELTA ADJ 5 ADJ ELONGASE

DELTA IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> S DELTA ADJ 5 ADJ3 ELONGASE

144030 DELTA 613 ADJ

3068124 5

0 ADJ3 506 ELONGASE

L2 0 DELTA ADJ 5 ADJ3 ELONGASE

(DELTA(W)ADJ(W)5(W)ADJ3(W)ELONGASE)

=> S DELTA5 AND ELONGASE

733 DELTA5

506 ELONGASE

L3 27 DELTA5 AND ELONGASE

=> D 1-27

L3 ANSWER 1 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN

AN 2009:429485 BIOSIS

DN PREV200900430588

Improvement of arachidonic acid and eicosapentaenoic acid production by increasing the copy number of the genes encoding fatty acid desaturase and elongase into Pichia pastoris.

AU Li, Yun-Tao; Li, Mao-Teng; Fu, Chu-Hua; Zhou, Peng-Peng; Liu, Jian-Min; Yu, Long-Jiang [Reprint Author]

CS Huazhong Univ Sci and Technol, Inst Resource Biol and Biotechnol, Coll Life Sci and Technol, Wuhan 430074, Peoples R China yulongjiang@mail.hust.edu.cn

- SO Biotechnology Letters, (JUL 2009) Vol. 31, No. 7, pp. 1011-1017.
- CODEN: BILED3. ISSN: 0141-5492.
 DT Article
- DT Article
- LA English
- OS GenBank-AY746355; EMBL-AY746355; DDJB-AY746355
- ED Entered STN: 22 Jul 2009
 - Last Updated on STN: 25 Nov 2009
- L3 ANSWER 2 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2009:314317 BIOSIS
- DN PREV200900315420
- TI Evidence for Elevated Delta6-Desaturase Expression and Activity in the Postmortem Prefrontal Cortex of Schizophrenic Patients.
- AU Liu, Yanhong [Reprint Author]; Jandacek, Ronald; Rider, Therese; Tso, Patrick; McNamara, Robert K.
- CS Univ Cincinnati, Dept Psychiat, Cincinnati, OH USA
- SO Biological Psychiatry, (APR 15 2009) Vol. 65, No. 8, Suppl. S, pp. 202S. Meeting Info.: 64th Annual Convention of the Society-of-Biological-Psychiatry, Vancouver, CANADA. May 14 -16, 2009. Soc

Biol Psychiat. CODEN: BIPCBF. ISSN: 0006-3223.

- DT Conference; (Meeting)
- Conference; Abstract; (Meeting Abstract)
- LA English
- ED Entered STN: 20 May 2009
- Last Updated on STN: 20 May 2009
- L3 ANSWER 3 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2005:167823 BIOSIS
- DN PREV200500170147
- TI Molecular cloning and functional characterization of fatty acyl desaturase and elongase cDNAs involved in the production of eicosapentaenoic and docosahexaenoic acids from alpha-linolenic acid in
- Atlantic salmon (Salmo salar).

 AU Hastings, Nicola; Agaba, Morris K.; Tocher, Douglas R. [Reprint Author];
- Zheng, Xiaozhong; Dickson, Cathryn A.; Dick, James R.; Teale, Alan J. CS Inst Aquaculture, Univ Stirling, Stirling, FK9 4LA, UK
- d.r.tocher@stir.ac.uk
- SO Marine Biotechnology (New York), (September 2004) Vol. 6, No. 5, pp. 463-474. print.
- ISSN: 1436-2228 (ISSN print).
- DT Article
- LA English
- ED Entered STN: 4 May 2005
 - Last Updated on STN: 4 May 2005
- L3 ANSWER 4 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2005:17247 BIOSIS
- DN PREV200500017046
- TI Novel fatty acid elongases and their use for the reconstitution of docosahexaenoic acid biosynthesis.
- AU Meyer, Astrid; Kirsch, Helene; Domergue, Frederic; Abbadi, Amine; Sperling, Petra; Bauer, Joerg; Cirpus, Petra; Zank, Thorsten K.; Moreau, Hayur, Pagene, Thomas, I. (Zahringer, Ulrich Heing, Franct (Penrint Author)
- Herve; Roscoe, Thomas J.; Zahringer, Ulrich; Heinz, Ernst [Reprint Author] CS Blozentrum Klein Flottbek, Univ Hamburg, D-22609, Hamburg, Germany eheinzebotanik.uni-hamburg.de
- SO Journal of Lipid Research, (October 2004) Vol. 45, No. 10, pp. 1899-1909. print. CODEN: JLPRAW. ISSN: 0022-2275.
- DT Article
- LA English

- Entered STN: 22 Dec 2004 Last Updated on STN: 22 Dec 2004
- ANSWER 5 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2004:331488 BIOSIS
- PREV200400334002 DN
- TI Effects of diets containing vegetable oil on expression of genes involved in highly unsaturated fatty acid biosynthesis in liver of Atlantic salmon (Salmo salar).
- ΑU Zheng, Xiaozhong; Tocher, Douglas R. [Reprint Author]; Dickson, Cathryn A.; Bell, J. Gordon; Teale, Alan J.
- Inst Aquaculture, Univ Stirling, Airthrey Rd, Stirling, FK9 4LA, Scotland d.r.tocher@stir.ac.uk
- so Aquaculture, (June 2004) Vol. 236, No. 1-4, pp. 467-483. print. ISSN: 0044-8486 (ISSN print).
- DT Article
- English LA
- ED Entered STN: 4 Aug 2004 Last Updated on STN: 4 Aug 2004
- 1.3 ANSWER 6 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2004:325761 BIOSIS
- PREV200400325333 DN
- ΤI Production of very long chain polyunsaturated omega-3 and omega-6 fatty acids in plants.
- Qi, Baoxiu [Reprint Author]; Fraser, Tom; Mugford, Sam; Dobson, Gary; AU Sayanova, Olga; Butler, Justine; Napier, Johnathan A.; Stobart, A. Keith; Lazarus, Colin M.
- Dept Biol and Biochem, Univ Bath, 4 South, Claverton Down, Bath, Avon, BA2 7AY, England
- bssbq@bath.ac.uk Nature Biotechnology, (June 2004) Vol. 22, No. 6, pp. 739-745. print. SO
- ISSN: 1087-0156 (ISSN print).
- DT Article
- LA English ED
 - Entered STN: 29 Jul 2004 Last Updated on STN: 29 Jul 2004
- L3 ANSWER 7 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2004:122156 BIOSIS
- PREV200400123165 DN
- ΤI Effects of dietary cis 9, trans 11-18:2, trans 10, cis 12-18:2, or vaccenic acid (trans 11-18:1) during lactation on body composition, tissue fatty acid profiles, and litter growth in mice.
- AU Loor, Juan J. [Reprint Author]; Lin, Xiaobo; Herbein, Joseph H.
- CS Dairy Science Department, Virginia Tech, Blacksburg, VA, 24061-0315, USA iloor@uiuc.edu
- SO British Journal of Nutrition, (December 2003) Vol. 90, No. 6, pp. 1039-1048, print.
- CODEN: BJNUAV. ISSN: 0007-1145. Article
- LA English
- Entered STN: 3 Mar 2004 ED Last Updated on STN: 3 Mar 2004
- L3 ANSWER 8 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2003:491010 BIOSTS
- DN PREV200300493364
- Acyl carriers used as substrates by the desaturases and elongases involved in very long-chain polyunsaturated fatty acids biosynthesis reconstituted in yeast.

- ΑU Domerque, Frederic [Reprint Author]; Abbadi, Amine; Ott, Claudia; Zank, Thorsten K.; Zaehringer, Ulrich; Heinz, Ernst
- Institut fuer Allgemeine Botanik, Universitaet Hamburg, Ohnhorststrasse 18, 22609, Hamburg, Germany fredDo@botanik.uni-hamburg.de
- Journal of Biological Chemistry, (September 12 2003) Vol. 278, No. 37, pp. 35115-35126. print. CODEN: JBCHA3. ISSN: 0021-9258.
- DT Article
- LA English
- ED Entered STN: 22 Oct 2003 Last Updated on STN: 22 Oct 2003
- 1.3 ANSWER 9 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN AN
- 2003:401806 BIOSIS
- DN PREV200300401806
- ΤI Dietary conjugated linoleic acid reduces long chain polyunsaturated fatty acid biosynthesis in brain and liver tissues of neonatal piglets.
- ΑIJ Bo, Jenny [Reprint Author]; Lin, Xi; Mathews Oliver, Susan A.; Harrell, Robert J.; Odle, Jack
- CS Animal Science, NC State University, Box 7621, Raleigh, NC, 27695-7621, boi@ncssm.edu; lin xi@ncsu.edu; samathew@unitv.ncsu.edu; bob_harrell@ncsu.edu; jack_odle@ncsu.edu
- FASEB Journal, (March 2003) Vol. 17, No. 4-5, pp. Abstract No. 454.23. http://www.fasebj.org/. e-file. Meeting Info.: FASEB Meeting on Experimental Biology: Translating the Genome. San Diego, CA, USA. April 11-15, 2003. FASEB. ISSN: 0892-6638 (ISSN print).
- DT Conference; (Meeting)
- Conference; Abstract; (Meeting Abstract)
- LA English
- ED Entered STN: 3 Sep 2003
 - Last Updated on STN: 3 Sep 2003
- L3 ANSWER 10 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2003:43109 BIOSIS
- DN PREV200300043109
- ΤТ Expression of meadowfoam Des5 and FAE1 genes in yeast and in transgenic sovbean somatic embryos, and their roles in fatty acid modification.
- AU Marillia, Elizabeth-France; Giblin, E. Michael; Covello, Patrick S.; Taylor, David C. [Reprint Author]
- CS Seed Oil Biotechnology Group, National Research Council of Canada, Plant Biotechnology Institute, 110 Gymnasium Place, Saskatoon, SK, S7N 0W9, Canada
 - David.tavlor@nrc.ca
- Plant Physiology and Biochemistry (Paris), (October 2002) Vol. 40, No. 10, SO pp. 821-828. print. CODEN: PPBIEX. ISSN: 0981-9428.
- Article
- LA English
- Entered STN: 15 Jan 2003 ED Last Updated on STN: 15 Jan 2003
- L3 ANSWER 11 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2002:514895 BIOSIS
- DN PREV200200514895
- Cloning and functional characterization of Phaeodactylum tricornutum front-end desaturases involved in eicosapentaenoic acid biosynthesis.

- ΑU Domerque, Frederic [Reprint author]; Lerchl, Jens; Zaehringer, Ulrich; Heinz, Ernst
- Plant Science Sweden AB, SE-26831, Svalov, Sweden
- fredDo@botanik.uni-hamburg.de
- European Journal of Biochemistry, (August, 2002) Vol. 269, No. 16, pp. 4105-4113. print. CODEN: EJBCAI. ISSN: 0014-2956.
- Article
- LA English
- ED Entered STN: 2 Oct 2002
 - Last Updated on STN: 2 Oct 2002
- L3 ANSWER 12 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2002:472024 BIOSIS
- PREV200200472024 DN
- ΤI Cloning and functional characterisation of an enzyme involved in the elongation of DELTA6-polyunsaturated fatty acids from the moss Physcomitrella patens.
- ΑU Zank, Thorsten K. [Reprint author]; Zaehringer, Ulrich; Beckmann, Christoph; Pohnert, Georg; Boland, Wilhelm; Holtorf, Hauke; Reski, Ralf; Lerchl, Jens; Heinz, Ernst
- Universitaet Hamburg, Institut fuer Allgemeine Botanik, Ohnhorststrasse 18, 22609, Hamburg, Germany fb8a001@botanik.uni-hamburg.de
- Plant Journal, (August, 2002) Vol. 31, No. 3, pp. 255-268. print. SO ISSN: 0960-7412.
- DT Article
- LA English
- ED Entered STN: 11 Sep 2002
- Last Updated on STN: 11 Sep 2002
- ANSWER 13 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on L3 STN
- 2002:326588 BIOSIS AN
- DN PREV200200326588
- TΙ Genetic dissection of polyunsaturated fatty acid synthesis in
- Caenorhabditis elegans.
- AU Watts, Jennifer L.; Browse, John [Reprint author]
- CS Institute of Biological Chemistry, Washington State University, Pullman, WA, 99164-6340, USA iab@wsu.edu
- SO Proceedings of the National Academy of Sciences of the United States of
- America, (April 30, 2002) Vol. 99, No. 9, pp. 5854-5859. print. CODEN: PNASA6. ISSN: 0027-8424. DT
- Article
- LA English
- Entered STN: 5 Jun 2002 ED
 - Last Updated on STN: 5 Jun 2002
- ANSWER 14 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on L3
- AN 2002:78109 BIOSIS
- DN PREV200200078109
- Helicobacter pylori alters n-6 fatty acid metabolism and prostaglandin E2 synthesis in rat gastric mucosal cells.
- Nakaya, Atsuko [Reprint author]; Wakabayashi, Hiroyuki; Imamura, Lisa; Fukuta, Kanako; Makimoto, Shinya; Naganuma, Kotaro; Orihara, Tadahiro; Minemura, Masami; Shimizu, Yukihiro; Nagasawa, Tetsuro; Hamazaki, Tomohito; Watanabe, Akiharu
- Third Department of Internal Medicine, Faculty of Medicine, Toyama Medical

- and Pharmaceutical University, 2630 Sugitani, Toyama, 930-0194, Japan atsuko n@popl2.odn.ne.jp
- SO Journal of Gastroenterology and Hepatology, (November, 2001) Vol. 16, No. 11, pp. 1197-1205. print. CODEN: JGHEEO. ISSN: 0815-9319.
- DT Article
- LA English
 - Entered STN: 16 Jan 2002 Last Updated on STN: 25 Feb 2002
- L3 ANSWER 15 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2002:52706 BIOSIS
- DN PREV200200052706
- TI Activity of human DELTA5 and DELTA6 desaturases on multiple n-3
 - and n-6 polyunsaturated fatty acids.
- AU de Antueno, Roberto J. [Reprint author]; Knickle, Leah C.; Smith, Heidi; Elliot, Michele L.; Allen, Stephen J.; Nwaka, Solomon; Winther, Michael D. CS 1520 Ashlee Drive, Coldbrook, NS, B4R 1A1, Canada
- CS 1520 Ashlee Drive, Coldbrook, NS, B4R 1A1, r.deantueno@mailexcite.com
- SO FEBS Letters, (30 November, 2001) Vol. 509, No. 1, pp. 77-80. print. CODEN: FEBLAL. ISSN: 0014-5793.
- DT Article
- LA English
- OS Genbank-AF126799; Genbank-AF226273
- ED Entered STN: 9 Jan 2002 Last Updated on STN: 26 Feb 2002
- L3 ANSWER 16 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on
- STN AN 2001:186335 BIOSIS
- DN PREV200100186335
- TI Cloning and functional expression of the first plant fatty acid
- elongase specific for DELTA6-polyunsaturated fatty acids.

 AU Zank, T. K.; Zaehringer, U.; Lerchl, J.; Heinz, E. [Reprint author]
- CS Institut fuer Allgemeine Botanik, Universitaet Hamburg, Ohnhorststrasse
- 18, D-22609, Hamburg, Germany eheinz@botanik.uni-hamburg.de
- SO Biochemical Society Transactions, (December, 2000) Vol. 28, No. 6, pp. 654-658. print.
 CODEN. BCSTB5. ISSN: 0300-5127.
- DT Article
- LA English
- ED Entered STN: 20 Apr 2001
 - Last Updated on STN: 18 Feb 2002
- L3 ANSWER 17 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on ${\tt STN}$
- AN 2000:519599 BIOSIS
- DN PREV200000519599
- TI Production of fatty acid components of meadowfoam oil in somatic soybean embryos.
- AU Cahoon, Edgar B.; Marillia, Elizabeth-France; Stecca, Kevin L.; Hall, Sarah E.; Taylor, David C.; Kinney, Anthony J. [Reprint author]
- CS Experimental Station, DuPont Nutrition and Health, Wilmington, DE, 19880-0402, USA
- SO Plant Physiology (Rockville), (September, 2000) Vol. 124, No. 1, pp. 243-251. print.
 CODEN: FLPHAY, ISSN: 0032-0889.
- DT Article
- LA English

- Entered STN: 29 Nov 2000 Last Updated on STN: 11 Jan 2002
- ANSWER 18 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2000:386754 BIOSIS
- PREV200000386754 DN
- Identification and characterization of an enzyme involved in the
 - elongation of n-6 and n-3 polyunsaturated fatty acids.
- AU Parker-Barnes, Jennifer M.; Das, Tapas; Bobik, Emil; Leonard, Amanda E.; Thurmond, Jennifer M.; Chaung, Lu-Te; Huang, Yung-Sheng; Mukerji, Pradip [Reprint author]
- CS Ross Products Division, Abbott Laboratories, Columbus, OH, 43215, USA
- Proceedings of the National Academy of Sciences of the United States of America, (July 18, 2000) Vol. 97, No. 15, pp. 8284-8289. print. CODEN: PNASA6. ISSN: 0027-8424.
- DТ Article
- LA English
- ED Entered STN: 13 Sep 2000
 - Last Updated on STN: 8 Jan 2002
- L3 ANSWER 19 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2000:360335 BIOSIS
- DN PREV200000360335
- Characterisation of enzymes determining fatty acid chain length in TI developing seeds of Limnanthes douglasii.
- AU Sandager, Line [Reprint author]; Stymne, Sten
- CS Department of Medicinal Chemistry, Royal Danish School of Pharmacy, Universitetsparken 2, DK-2100, Copenhagen, Denmark
- SO Journal of Plant Physiology, (May, 2000) Vol. 156, No. 5-6, pp. 617-622. print.
- CODEN: JPPHEY. ISSN: 0176-1617.
- Article DT LA English
- ED Entered STN: 23 Aug 2000
 - Last Updated on STN: 8 Jan 2002
- L3 ANSWER 20 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2000:180510 BIOSIS
- DN PREV200000180510
- ΤI Fatty acid composition of phospholipids, triglycerides and cholesterol in serum of castrated and estradiol treated rats.
- AU Cinci, G.; Guerranti, R.; Pagani, R.; Carlucci, F.; Terzuoli, L.; Rosi, F.; Marinello, E. [Reprint author]
- CS Istituto di Biochimica ed Enzimologia, Nuovi Istituti Biologici,
- Universita di Siena, Via Aldo Moro (San Miniato), 53100, Siena, Italy
- Life Sciences, (March 17, 2000) Vol. 66, No. 17, pp. 1647-1654. print. SO CODEN: LIFSAK. ISSN: 0024-3205.
- DT Article LA
- English
- Entered STN: 11 May 2000 ED Last Updated on STN: 4 Jan 2002
- L3 ANSWER 21 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2000:37671 BIOSIS
- DN PREV20000037671
- Arachidonic, eicosapentaenoic, and biosynthetically related fatty acids in the seed lipids from a primitive gymnosperm, Agathis robusta.

- AU Wolff, Robert L. [Reprint author]; Christie, William W.; Pedrono, Frederique; Marpeau, Anne M.
- CS ISTAB, Universite Bordeaux 1, Av. des Facultes, 33405, Talence Cedex, France
- SO Lipids, (Oct., 1999) Vol. 34, No. 10, pp. 1083-1097. print. CODEN: LPDSAP. ISSN: 0024-4201.
- DT Article
- LA English
- ED Entered STN: 19 Jan 2000
 - Last Updated on STN: 31 Dec 2001
- L3 ANSWER 22 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 1999:288211 BIOSIS
- DN PREV199900288211
- TI Fatty acid metabolism in marine fish: Low activity of fatty acyl DELTA5 desaturation in gilthead sea bream (Sparus aurata) cells.
- AU Tocher, Douglas R. [Reprint author]; Ghioni, Cristina
- CS Unit of Aquatic Biochemistry, Institute of Aquaculture, University of Stirling, Stirling, FK9 4LA, UK
- SO Lipids, (May, 1999) Vol. 34, No. 5, pp. 433-440. print. CODEN: LPDSAP. ISSN: 0024-4201.
- DT Article
- LA English
- ED Entered STN: 5 Aug 1999 Last Updated on STN: 5 Aug 1999
- L3 ANSWER 23 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 1999:278133 BIOSIS
- DN PREV199900278133
- TI Fatty acid desaturation: Effect of alphafetoprotein on alpha-linolenic acid conversion by fetal rat hepatocytes.
- AU Alava, M. A.; Iturralde, M. [Reprint author]; Gonzalez, B.; Pineiro, A. CS Departamento de Bioquimica y Biologia Molecular y Celular, Facultad de Veterinaria, Universidad de Zaragoza, Miguel Servet 177, E 50013.
- Zaragoza, Spain SO Prostaglandins Leukotrienes and Essential Fatty Acids, (March, 1999) Vol. 60, No. 3, pp. 209-215. print. CODEN: PLEABU. ISSN: 0952-3278.
- DT Article LA English
- ED Entered STN: 28 Jul 1999
 - Last Updated on STN: 28 Jul 1999
- L3 ANSWER 24 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 1999:174288 BIOSIS
- DN PREV199900174288
- TI Low C18 to C20 fatty acid elongase activity and limited conversion of stearidonic acid, 18:4(n-3), to eicosapentaenoic acid, 20:5(n-3), in a cell line from the turbot, Scophthalmus maximus.
- AU Ghioni, Cristina [Reprint author]; Tocher, Douglas R.; Bell, Michael V.; Dick, James R.; Sargent, John R.
- CS Institute of Aquaculture, University of Stirling, Stirling, FK9 4LA, UK SO Biochimica et Biophysica Acta, (Feb. 25, 1999) Vol. 1437, No. 2, pp. 170-181, print.
- CODEN: BBACAQ. ISSN: 0006-3002.
- DT Article
- LA English
- ED Entered STN: 5 May 1999

Last Updated on STN: 5 May 1999

- T.3 ANSWER 25 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- MA 1999:35557 BIOSIS
- PREV199900035557 DN
- The seed fatty acid composition and the distribution of DELTA5 -olefinic acids in the triacylglycerols of some Taxaceae (Taxus and Torreva).
- ΑU Wolff, Robert L. [Reprint author]; Pedrono, Frederique; Marpeau, Anne M.; Christie, William W.; Gunstone, Frank D.
- ISTAB, Lab. Lipochimie Alimentaire, Univ. Bordeaux, 1 Allee des Facultes, 33450 Talence Cedex, France
- SO Journal of the American Oil Chemists' Society, (Nov., 1998) Vol. 75, No. 11, pp. 1637-1641. print. CODEN: JAOCA7. ISSN: 0003-021X.
- Article DT
- LA English
- ED Entered STN: 3 Feb 1999
 - Last Updated on STN: 3 Feb 1999
- L3 ANSWER 26 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 1998:139542 BIOSIS
- DN PREV199800139542
- Dietary fish oil inhibits DELTA6-desaturase activity in vivo.
- AII Raz, Amiram [Reprint author]; Kamin-Belsky, Nurit; Przedecki, Fiorenza; Obukowicz, Mark
- CS Dep. Biochem., George S. Wise Fac. Life Sci., Tel-Aviv Univ., Tel-Aviv 69978, Israel
- SO Journal of the American Oil Chemists' Society, (Feb., 1998) Vol. 75, No. 2, pp. 241-245. print. CODEN: JAOCA7. ISSN: 0003-021X.
- Article DT
- LA English
- ED Entered STN: 20 Mar 1998
 - Last Updated on STN: 20 Mar 1998
- L3 ANSWER 27 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 1995:203991 BIOSIS
- DN PREV199598218291
- ΤI Modulation in DELTA-9, DELTA-6, and DELTA-5 fatty acid desaturase activity in the human intestinal CaCo-2 cell line. AU Dias, V. C.; Parsons, H. G. [Reprint author]
- CS Gasgroenterol. Res. Group, Fac. Med., Univ. Calgary, Calgary, AB T2N 1N4,
- Canada Journal of Lipid Research, (1995) Vol. 36, No. 3, pp. 552-563. SO
- DT Article
- LA English
- ED Entered STN: 23 May 1995

Last Updated on STN: 9 Jun 1995

CODEN: JLPRAW, ISSN: 0022-2275.

=> D 4,17,18 FULL

'FULL' IS NOT A VALID FORMAT FOR FILE 'BIOSIS'

The following are valid formats:

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ABS ---- AB ALL ----- AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED, AB, NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN BIB ----- AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED CBIB ----- AN, compressed bibliographic information DALL ----- ALL, delimited for post-processing IABS ----- ABS, with text label IALL ----- ALL, indented with text labels IBIB ----- BIB, indented with text labels IIND ----- IND, indented with text labels IND ----- NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN HIT ----- all fields containing hit search terms HITIND ---- IND KWIC ----- Hit terms plus 20 words on either side OCC ---- number of occurrences of hit terms and fields in which they occur

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To display a particular field or fields, enter the display field codes. For a list of display field codes, enter 'HELP PIFILDS' at an arrow prompt (=>). Examples of formats include: 'BIB'; 'AB'; 'SO'. You may specify the format fields in any order, and the information will be displayed in the same order as the format specification.

The same formats (except for HIT, HITIND, KWIC, and OCC) may be used with the DISPLAY ACC command to display the record for a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):ALL

- L3 ANSWER 4 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN AN 2005:17247 BIOSIS
- DN PREV200500017046
- TI Novel fatty acid elongases and their use for the reconstitution of docosahexaenoic acid biosynthesis.
- AU Meyer, Astrid; Kirsch, Helene; Domergue, Frederic; Abbadi, Amine; Sperling, Petra; Bauer, Joerg; Cirpus, Petra; Zank, Thorsten K., Moreau, Herve; Roscoe, Thomas J.; Zahringer, Ulrich; Heinz, Ernst [Reprint Author]
- CS Biozentrum Klein Flottbek, Univ Hamburg, D-22609, Hamburg, Germany eheinz@botanik.uni-hamburg.de
- SO Journal of Lipid Research, (October 2004) Vol. 45, No. 10, pp. 1899-1909. print.
- CODEN: JLPRAW. ISSN: 0022-2275. DT Article
- LA English
- ED Entered STN: 22 Dec 2004
 - Last Updated on STN: 22 Dec 2004
- AB In algae, the biosynthesis of docosahexaenoic acid (22:6omega3; DRA) proceeds via the elongation of eicosapentaenoic acid (20:5omega3; EPA) to 22:5omega3, which is required as a substrate for the final DELTA4 desaturation. To isolate the elongase specific for this step, we searched expressed sequence tag and genomic databases from the algae Ostreococcus tauri and Thalassiosira pseudonana, from the fish Oncorhynchus mykiss, from the frog Kenopus laevis, and from the sea squirt Clona intestinalis using as a query the elongase sequence PPPSEI from the moss Physcomitrella patens. The open reading frames of the identified elongase candidates were expressed in yeast for functional characterization. By this, we identified two types of

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elongases from O. tauri and T. pseudonana: one specific for the elongation
     of (DELTA6-)C18-PUFAs and one specific for (DELTA5-)C20-PUFAs,
     showing highest activity with EPA. The clones isolated from O. mykiss, X.
     laevis, and C. intestinalis accepted both C18- and C20-PUFAs. By
     coexpression of the DELTA6- and DELTA5-elongases from T.
     pseudonana and O. tauri, respectively, with the DELTA5- and
     DELTA4-desaturases from two other algae we successfully implemented DHA
     synthesis in stearidonic acid-fed yeast. This may be considered an
     encouraging first step in future efforts to implement this biosynthetic
     sequence into transgenic oilseed crops.
    Biochemistry studies - Lipids
     Enzymes - General and comparative studies: coenzymes
                                                          10802
     Plant physiology - Enzymes
                                51518
    Major Concepts
        Enzymology (Biochemistry and Molecular Biophysics)
    Chemicals & Biochemicals
        Delta 4: desaturation; Delta-4-desaturase; Delta-5-elongase;
        Delta-6-elongase; carbon 18 polyunsaturated fatty acid
        [C18-PUFA]; carbon 20 polyunsaturated fatty acid [C20-PUFA];
        delta-5-desaturase; docosahexaenoic acid [DHA]: biosynthesis;
        eicosapentaenoic acid [EPA]; elongase sequence: PpPSE1; fatty
        acid elongase; open reading frame; polyunsaturated fatty acid
        [PUFA]; stearidonic acid
    Methods & Equipment
       genomic database: computer software
ORGN Classifier
       Chlorophyta
     Super Taxa
       Algae; Plantae
     Organism Name
       Ostreococcus tauri (species)
     Taxa Notes
       Algae, Microorganisms, Nonvascular Plants, Plants
ORGN Classifier
       Chrysophyta
                     13500
     Super Taxa
       Algae; Plantae
     Organism Name
        Thalassiosira pseudonana (species)
     Taxa Notes
       Algae, Microorganisms, Nonvascular Plants, Plants
ORGN Classifier
       Fungi
               15000
     Super Taxa
       Plantae
     Organism Name
       veast (common)
     Taxa Notes
        Fungi, Microorganisms, Nonvascular Plants, Plants
ORGN Classifier
       Musci 21600
     Super Taxa
        Bryophyta; Plantae
     Organism Name
        Physcomitrella patens (species)
     Taxa Notes
        Bryophytes, Nonvascular Plants, Plants
ORGN Classifier
       Osteichthyes
                     85206
     Super Taxa
        Pisces; Vertebrata; Chordata; Animalia
```

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Organism Name
        Oncorhynchus mykiss (species)
     Taxa Notes
        Animals, Chordates, Fish, Nonhuman Vertebrates, Vertebrates
ORGN Classifier
       Salientia
                  85306
     Super Taxa
       Amphibia; Vertebrata; Chordata; Animalia
     Organism Name
       Xenopus laevis (species)
     Taxa Notes
       Amphibians, Animals, Chordates, Nonhuman Vertebrates, Vertebrates
ORGN Classifier
       Urochordata
                    85104
     Super Taxa
       Protochordata; Chordata; Animalia
     Organism Name
       Ciona intestinalis (species)
     Taxa Notes
       Animals, Chordates, Invertebrates, Protochordates
    64427-79-8 (Delta-4-desaturase)
     51901-23-6 (delta-5-desaturase)
     6217-54-50 (docosahexaenoic acid)
     25167-62-80 (docosahexaenoic acid)
     32839-18-2Q (docosahexaenoic acid)
     6217-54-5Q (DHA)
     25167-62-8Q (DHA)
     32839-18-20 (DHA)
     10417-94-40 (eicosapentaenoic acid)
     25378-27-2Q (eicosapentaenoic acid)
    32839-30-8Q (eicosapentaenoic acid)
     10417-94-4Q (EPA)
     25378-27-2Q (EPA)
     32839-30-80 (EPA)
    69403-06-1Q (fatty acid elongase)
     94219-29-1Q (fatty acid elongase)
     20290-75-9 (stearidonic acid)
    ANSWER 17 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on
    STN
    2000:519599 BIOSIS
    PREV200000519599
    Production of fatty acid components of meadowfoam oil in somatic soybean
     embryos.
     Cahoon, Edgar B.; Marillia, Elizabeth-France; Stecca, Kevin L.; Hall,
     Sarah E.; Taylor, David C.; Kinney, Anthony J. [Reprint author]
     Experimental Station, DuPont Nutrition and Health, Wilmington, DE,
     19880-0402, USA
     Plant Physiology (Rockville), (September, 2000) Vol. 124, No. 1, pp.
     243-251. print.
     CODEN: PLPHAY. ISSN: 0032-0889.
    Article
    English
     Entered STN: 29 Nov 2000
     Last Updated on STN: 11 Jan 2002
    The seed oil of meadowfoam (Limnanthes alba) and other Limnanthes spp. is
     enriched in the unusual fatty acid DELTA5-eicosenoic acid
     (20:1DELTA5). This fatty acid has physical and chemical properties that
    make the seed oil of these plants useful for a number of industrial
     applications. An expressed sequence tag approach was used to identify
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cDNAs for enzymes involves in the biosynthesis of 20:1DELTA5). By random

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sequencing of a library prepared from developing Limnanthes douglasii seeds, a class of cDNAs was identified that encode a homolog of acyl-coenzyme A (CoA) desaturases found in animals, fungi, and cyanobacteria. Expression of a cDNA for the L. douglasii acyl-CoA desaturase homolog in somatic soybean (Glycine max) embryos behind a strong seed-specific promoter resulted in the accumulation of DELTA5-hexadecenoic acid to amounts of 2% to 3% (w/w) of the total fatty acids to single embryos. DELTA5-Octadecenoic acid and 20:1DELTA5 also composed <1% (w/w) each of the total fatty acids of these embryos. In addition, cDNAs were identified from the L. douglasii expressed sequence tags that encode a homolog of fatty acid elongase 1 (FAE1), a beta-ketoacyl-CoA synthase that catalyzes the initial step of very long-chain fatty acid synthesis. Expression of the L. douglassi FAE1 homolog in somatic soybean embryos was accompanied by the accumulation of C20 and C22 fatty acids, principally as eicosanoic acid, to amounts of 18% (w/w) of the total fatty acids of single embryos. To partially reconstruct the biosynthetic pathway of 20:1DELTA5 in transgenic plant tissues, cDNAs for the L. douglasii acyl-CoA desaturase and FAE1 were co-expressed in somatic soybean embryos. In the resulting transgenic embryos, 20:1DELTA5 and DELTA5-docosenoic acid composed up to 12% of the total fatty acids. Plant physiology - Metabolism Biochemistry studies - Lipids 10066 Metabolism - General metabolism and metabolic pathways 13002 Plant physiology - Reproduction 51512 Major Concepts Metabolism Chemicals & Biochemicals 20:1-delta-5-docosenoic acid; Limnanthes seed oil: fatty acid components; acyl-CoA desaturate; beta-ketoacyl-CoA synthase; delta-5-docosenoic acid; eicosanoic acid; fatty acid: production; fatty acid elongase 1 Miscellaneous Descriptors biosynthetic pathway ORGN Classifier Leguminosae 26260 Super Taxa Dicotyledones; Angiospermae; Spermatophyta; Plantae Organism Name Glycine max [sovbean]: somatic embryo, transgenic Taxa Notes Angiosperms, Dicots, Plants, Spermatophytes, Vascular Plants ORGN Classifier Limnanthaceae 26280 Super Taxa Dicotyledones; Angiospermae; Spermatophyta; Plantae Organism Name Limnanthes alba [meadowfoam]: seed Limnanthes douglasii: seed Limnanthes spp.: seed Taxa Notes Angiosperms, Dicots, Plants, Spermatophytes, Vascular Plants 88414-92-0 (beta-ketoacvl-CoA synthase) 506-30-9 (eicosanoic acid) ANSWER 18 OF 27 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN 2000:386754 BIOSIS PREV200000386754

Identification and characterization of an enzyme involved in the elongation of n-6 and n-3 polyunsaturated fatty acids.

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ΤТ

- AU Parker-Barnes, Jennifer M.; Das, Tapas; Bobik, Emil; Leonard, Amanda E.; Thurmond, Jennifer M.; Chaung, Lu-Te; Huang, Yung-Sheng; Mukerji, Pradip [Reprint author]
- Ross Products Division, Abbott Laboratories, Columbus, OH, 43215, USA
- SO Proceedings of the National Academy of Sciences of the United States of America, (July 18, 2000) Vol. 97, No. 15, pp. 8284-8289. print. CODEN: PNASA6. ISSN: 0027-8424.

Article

LA English

ED Entered STN: 13 Sep 2000

Last Updated on STN: 8 Jan 2002

The enzymes that are involved in the elongation of fatty acids differ in terms of the substrates on which they act. To date, the enzymes specifically involved in the biosynthesis of polyunsaturated fatty acids have not yet been identified. In an attempt to identify a gene(s) encoding an enzyme(s) specific for the elongation of gamma-linolenic acid (GLA) (18:3n-6), a cDNA expression library was made from the fungus Mortierella alpina. The cDNA library constructed in a yeast expression vector was screened by measuring the expressed elongase activity (conversion of GLA to dihomo-GLA (20:3n-6)) from an individual yeast clone. In this report, we demonstrate the isolation of a cDNA (GLELO) whose encoded protein (GLELOp) was involved in the conversion of GLA to dihomo-GLA in an efficient manner (60% conversion). This cDNA contains a 957-nucleotide ORF that encodes a protein of 318 amino acids. Substrate specificity analysis revealed that this fungal enzyme acted also on stearidonic acid (18:4n-3). This report identifies and characterizes an elongase subunit that acts specifically on the two DELTA6-desaturation products, 18:3n-6 and 18:4n-3. When this GLELO cDNA was coexpressed with M. alpina DELTA5-desaturase cDNA in yeast, it resulted in the conversion of GLA to arachidonic acid (20:4n-6) as well as the conversion of stearidonic acid to eicosopentaenoic acid (20:5n-3). Thus, this GLELO gene may play an critical role in the bio-production of both n-6 and n-3 polyunsaturated fatty acids.

Biochemistry studies - Lipids 10066

Genetics - General 03502

Genetics - Plant 03504

Biochemistry studies - General 10060

Biochemistry studies - Nucleic acids, purines and pyrimidines

Biochemistry studies - Proteins, peptides and amino acids

Plant physiology - Chemical constituents

Major Concepts

Biochemistry and Molecular Biophysics: Molecular Genetics (Biochemistry and Molecular Biophysics)

Chemicals & Biochemicals IΤ

arachidonic acid; cDNA [complementary DNA]: library; eicosapentaenoic acid; gamma-linolenic acid; n-3 polyunsaturated fatty acid: biosynthesis, elongation; n-6 polyunsaturated fatty acid: biosynthesis, elongation; stearidonic acid; Mortierella alpina GLELO gene

Miscellaneous Descriptors

amino acid sequence

ORGN Classifier

Phycomycetes 15900 Super Taxa

Fungi; Plantae

Organism Name

Mortierella alpina

Taxa Notes

Fungi, Microorganisms, Nonvascular Plants, Plants

RN 506-32-1 (arachidonic acid)

10417-94-4Q (eicosapentaenoic acid)

25378-27-2Q (eicosapentaenoic acid)

```
32839-30-8Q (eicosapentaenoic acid)
     506-26-3 (gamma-linolenic acid)
     20290-75-9 (stearidonic acid)
=> S DELTA AND 5 AND ELONGASE
        144030 DELTA
       3068124 5
           506 ELONGASE
           85 DELTA AND 5 AND ELONGASE
=> S DELTA ADJ 5 ADJ ELONGASE
        144030 DELTA
           613 ADJ
       3068124 5
          613 ADJ
           506 ELONGASE
             0 DELTA ADJ 5 ADJ ELONGASE
                 (DELTA(W)ADJ(W)5(W)ADJ(W)ELONGASE)
=> D L4 1-20
     ANSWER 1 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
     2010:139604 BIOSIS
     PREV201000139604
     Protein restriction during pregnancy affects maternal liver lipid
    metabolism and fetal brain lipid composition in the rat.
     Torres, Nimbe; Bautista, Claudia J.; Tovar, Armando R.; Ordaz, Guillermo;
     Rodriguez-Cruz, Maricela; Ortiz, Victor; Granados, Omar; Nathanielsz,
     Peter W.; Larrea, Fernando; Zambrano, Elena [Reprint Author]
     Inst Nacl Nutr Salvador Zubiran, Dept Reprod Biol, Vasco de Quiroga
     15, Secc 16, Mexico City 14000, DF, Mexico
     zamgon@servidor.unam.mx
     American Journal of Physiology - Endocrinology and Metabolism, (FEB 2010)
    Vol. 298, No. 2, pp. E270-E277.
    ISSN: 0193-1849. E-ISSN: 1522-1555.
    Article
    English
    Entered STN: 10 Mar 2010
     Last Updated on STN: 10 Mar 2010
    ANSWER 2 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
    2010:131720 BIOSIS
    PREV201000131720
     A Multiplexed Cell Assay in HepG2 Cells for the Identification of
     Delta-5, Delta-6, and Delta-9
     Desaturase and Elongase Inhibitors.
     Zhang, Lei; Ramtohul, Yeeman; Gagne, Sebastien; Styhler, Angela; Wang,
     Hao; Guay, Jocelyne; Huang, Zheng [Reprint Author]
    Merck Frosst Ctr Therapeut Res, POB 1005, Pointe Claire, PQ H9R 4P8,
     Canada
     zhenghuang78@gmail.com
     Journal of Biomolecular Screening, (FEB 2010) Vol. 15, No. 2, pp. 169-176.
    ISSN: 1087-0571.
    Article
    English
    Entered STN: 3 Mar 2010
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ANSWER 3 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN T. 4 AN 2010:115298 BIOSIS

Last Updated on STN: 3 Mar 2010

- DM PREV201000115298
- Co-expression of Thraustochytrium sp FJN-10 Delta(5)elongase and Delta(4)-desaturase in Saccharomyces cerevisiae.
- ΑU Liu Yanru [Reprint Author]; Jiang Xianzhang; Gao Yuanyuan; Tian Baoyu; Chen Xiaofeng; Chen Jinging; Huang Jianzhong
- Fujian Normal Univ, Coll Life Sci, Minist Educ, Engn Res Ctr Ind Microbiol, Fuzhou 350108, Peoples R China vrliu@finu.edu.cn
- Chinese Journal of Applied and Environmental Biology, (2009) Vol. 15, No. 6, pp. 851-855. ISSN: 1006-687X.
- DT Article
- LA Chinese
- ED Entered STN: 24 Feb 2010
 - Last Updated on STN: 24 Feb 2010
- L4 ANSWER 4 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN AN 2010:35842 BIOSIS
- DN PREV201000035842
- ΤI Method of producing polyunsaturated fatty acids, novel biosynthesis genes, and novel plant expression constructs.
- Lerchl, Jens [Inventor]; Anonymous; Renz, Andreas [Inventor]; Heinz, Ernst [Inventor]; Domerque, Frederic [Inventor]; Zahringer, Ulrich [Inventor] Svalov, Sweden
- ASSIGNEE: BASF Plant Science GmbH
- US 07615679 20091110
- Official Gazette of the United States Patent and Trademark Office Patents, SO (NOV 10 2009)
- CODEN: OGUPE7. ISSN: 0098-1133.
- DT Patent
- LA English
- ED Entered STN: 30 Dec 2009
 - Last Updated on STN: 30 Dec 2009
- T. 4 ANSWER 5 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2010:30309 BIOSIS
- DN PREV201000030309
- Hepatic Lipid Composition and Stearoyl-Coenzyme A Desaturase 1 mRNA
- Expression Can Be Estimated from Plasma VLDL Fatty Acid Ratios. ΑU Peter, Andreas [Reprint Author]; Cegan, Alexander; Wagner, Silvia;
- Lehmann, Rainer: Stefan, Norbert: Koenigsrainer, Alfred: Koenigsrainer, Ingmar; Haering, Hans-Ulrich; Schleicher, Erwin
- Univ Tubingen, Dept Internal Med, Div Endocrinol Diabet Vasc Med Nephrol and Clin Che, Otfried Muller Str 10, D-72076 Tubingen, Germany Andreas.Peter@med.uni-tuebingen.de
- Clinical Chemistry, (DEC 2009) Vol. 55, No. 12, pp. 2113-2120. SO CODEN: CLCHAU, ISSN: 0009-9147.
- DT Article
- LA English
- Entered STN: 30 Dec 2009 ED
 - Last Updated on STN: 30 Dec 2009
- L4 ANSWER 6 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2009:624382 BIOSIS
- DN PREV200900625485
- Can the rat liver maintain normal brain DHA metabolism in the absence of dietary DHA?.
- AII Rapoport, Stanley I. [Reprint Author]; Igarashi, Miki
- NIA, Brain Physiol and Metab Sect, NIH, Bldg 9, Room 1S128,9000 Rockville Pike, Bethesda, MD 20892 USA

sir@helix.nih.gov SO Prostaglandins Leukotrienes and Essential Fatty Acids, (AUG-SEP 2009) Vol. 81, No. 2-3, Sp. Iss. SI, pp. 119-123. CODEN: PLEAEU. ISSN: 0952-3278. DT Article LA English Entered STN: 12 Nov 2009 ED

L4ANSWER 7 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN

AN 2009:494568 BIOSIS

DN PREV200900495671

TΙ Prostate tumor growth can be modulated by dietarily targeting the 15-lipoxygenase (LO)-1 and cyclooxygenase (COX)-2 enzymes.

AII Kelavkar, Uddhav P. [Reprint Author]; Hutzley, Justin; McHugh, Kevin; Allen, Kenneth G. D.; Parwani, Anil

Univ Pittsburgh, Pittsburgh, PA USA

Last Updated on STN: 18 Nov 2009

SO Proceedings of the American Association for Cancer Research Annual Meeting, (APR 2009) Vol. 50, pp. 716. Meeting Info.: 100th Annual Meeting of the

American-Association-for-Cancer-Research, Denver, CA, USA, April 18 -22, 2009. Amer Assoc Canc Res. ISSN: 0197-016X.

DT Conference: (Meeting)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 19 Aug 2009 Last Updated on STN: 19 Aug 2009

T. 4 ANSWER 8 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN AN 2009:481779 BIOSIS

DN

PREV200900482882

Improved production of various polyunsaturated fatty acids through filamentous fungus Mortierella alpina breeding.

ΑU Sakuradani, Eiji; Ando, Akinori; Ogawa, Jun; Shimizu, Sakayu [Reprint Authorl

CS Kyoto Univ, Div Appl Life Sci, Grad Sch Agr, Sakyo Ku, Oiwake Cho, Kyoto 6068502, Japan sim@kais.kyoto-u.ac.jp

Applied Microbiology and Biotechnology, (AUG 2009) Vol. 84, No. 1, pp. 1-10.

CODEN: AMBIDG. ISSN: 0175-7598.

DT Article

SO

General Review; (Literature Review)

LA English

ED Entered STN: 19 Aug 2009 Last Updated on STN: 9 Dec 2009

L4 ANSWER 9 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN

AN 2009:429485 BIOSIS

DM

ΤI Improvement of arachidonic acid and eicosapentaenoic acid production by increasing the copy number of the genes encoding fatty acid desaturase and elongase into Pichia pastoris.

Li, Yun-Tao; Li, Mao-Teng; Fu, Chu-Hua; Zhou, Peng-Peng; Liu, Jian-Min; AΠ Yu, Long-Jiang [Reprint Author]

Huazhong Univ Sci and Technol, Inst Resource Biol and Biotechnol, Coll Life Sci and Technol, Wuhan 430074, Peoples R China yulongjiang@mail.hust.edu.cn

Biotechnology Letters, (JUL 2009) Vol. 31, No. 7, pp. 1011-1017. SO CODEN: BILED3. ISSN: 0141-5492.

- DT Article
- LA English
- OS GenBank-AY746355; EMBL-AY746355; DDJB-AY746355
- Entered STN: 22 Jul 2009 ED

Last Updated on STN: 25 Nov 2009

- ANSWER 10 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on L4
- AN 2009:408338 BIOSIS
- DN PREV200900409441
- Prostate Tumor Growth Can Be Modulated by Dietarily Targeting the 15-Lipoxygenase-1 and Cyclooxygenase-2 Enzymes.
- AΠ Kelavkar, Uddhav P. [Reprint Author]; Hutzley, Justin; McHugh, Kevin; Allen, Kenneth G. D.; Parwani, Anil
- G12E Hillman Canc Ctr UPCI Res Pavil, 5117 Ctr Ave, Pittsburgh, PA 15213 HSA kelavkarup@upmc.edu
- Neoplasia (New York), (JUL 2009) Vol. 11, No. 7, pp. 692-699. SO ISSN: 1522-8002.
- DT Article
- LA English ED
 - Entered STN: 8 Jul 2009 Last Updated on STN: 8 Jul 2009
- ANSWER 11 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on L4
- AN 2009:360391 BIOSIS
- PREV200900361494 DN
- TI Effect of sire and sex on the intramuscular fatty acid profile and indices for enzyme activities in pigs.
- ΔII Ntawubizi, M.; Raes, K.; Buys, N.; De Smet, S. [Reprint Author]
- Univ Ghent, Fac Biosci Engn, Dept Anim Prod, Lab Anim Nutr and Anim Prod CS Qual, Proefhoevestr 10, B-9090 Melle, Belgium martin.ntawubizi@ugent.be; katleen.raes@howest.be; nadine.buys@biw.kuleuven.be; stefaan.desmet@ugent.be
- SO Livestock Science, (JUN 2009) Vol. 122, No. 2-3, pp. 264-270.
- ISSN: 1871-1413.
- DT Article
- LA English
- ED Entered STN: 11 Jun 2009
 - Last Updated on STN: 11 Jun 2009
- L4 ANSWER 12 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on SIN
- AN 2009:349001 BIOSIS
- DN PREV200900350104
- ΤТ Physiological roles of fatty acyl desaturases and elongases in marine fish: Characterisation of cDNAs of fatty acvl Delta 6 desaturase and elov15 elongase of cobia (Rachycentron canadum).
- Zheng, Xiaozhong; Ding, Zhaokun; Xu, Youqing; Monroig, Oscar; Morais, AU Sofia; Tocher, Douglas R. [Reprint Author]
- Univ Stirling, Inst Aquaculture, Stirling FK9 4LA, UK d.r.tocher@stir.ac.uk
- Aquaculture, (MAY 4 2009) Vol. 290, No. 1-2, pp. 122-131. CODEN: AOCLAL, ISSN: 0044-8486.
- DT Article
- LA English
- ED Entered STN: 11 Jun 2009
 - Last Updated on STN: 11 Jun 2009
- L4 ANSWER 13 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on

AN

- 2009:321436 BIOSIS
- PREV200900322539 DN
- Elevated delta-6 desaturase (FADS2) expression in the postmortem

prefrontal cortex of schizophrenic patients; Relationship with fatty acid composition.

- Liu, Yanhong; Jandacek, Ronald; Rider, Therese; Tso, Patrick; McNamara, ΑU Robert K. [Reprint Author]
- Univ Cincinnati, Coll Med, Dept Psychiat, 231 Albert Sabin Way, Cincinnati, OH 45267 USA
- robert.mcnamara@psychiatry.uc.edu Schizophrenia Research, (APR 2009) Vol. 109, No. 1-3, pp. 113-120. SO
- ISSN: 0920-9964. DT
- Article
- LA English
- ED Entered STN: 20 May 2009

Last Updated on STN: 20 May 2009

- L4 ANSWER 14 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2009:282405 BIOSIS
- DN PREV200900283508
- Isolation and Characterisation of a Delta 5-fatty Acid
- Elongase from the Marine Microalga Pavlova salina.
- Robert, Stanley S.; Petrie, James R.; Zhou, Xue-Rong; Mansour, Maged P.; AU Blackburn, Susan I.; Green, Allan G.; Singh, Surinder P.; Nichols, Peter D. [Reprint Author]
- CSIRO Marine and Atmospher Res, Food Futures Natl Res Flagship, GPO Box 1538, Hobart, Tas 7000, Australia peter.nichols@csiro.au
- SO Marine Biotechnology (New York), (JUN 2009) Vol. 11, No. 3, pp. 410-418. ISSN: 1436-2228.
- Article DT
- LA English
- ED Entered STN: 30 Apr 2009

Last Updated on STN: 30 Apr 2009

- L4 ANSWER 15 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2009:125850 BIOSIS
- PREV200900125850 DN
- ΤI Identification of Delta 9-Elongation Activity from
- Thraustochytrium aureum by Heterologous Expression in Pichia pastoris. ΑU Lee, Jae-Cheol; Anbul, Periasamy; Kim, Won-Ho; Noh, Myung-Ju; Lee, Su-Jin;
- Seo, Jeong-Woo; Hur, Byung-Ki [Reprint Author]
- CS Inha Univ, Dept Biol Engn, Inchon 402751, South Korea
 - biosys@inha.ac.kr

SO Biotechnology and Bioprocess Engineering, (SEP-OCT 2008) Vol. 13, No. 5, pp. 524-532.

- ISSN: 1226-8372. Article
- LA English
- NCBI-CS486301 OS
- ED Entered STN: 18 Feb 2009 Last Updated on STN: 18 Feb 2009
- L.4 ANSWER 16 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2009:119692 BIOSIS
- PREV200900119692 DN
- TT Lower estimates of delta-5 desaturase and

- elongase activity are related to adverse profiles for several metabolic risk factors in young Japanese women.
- AU Murakami, Kentaro; Sasaki, Satoshi [Reprint Author]; Takahashi, Yoshiko; Uenishi, Kazuhiro; Watanabe, Tomoko; Kohri, Toshiyuki; Yarnasaki, Mitsuyo; Watanabe, Reiko; Baba, Keiko; Shibata, Katsurni; Takahashi, Toru; Hayabuchi, Hitomi; Ohki, Kazuko; Suzuki, Junko
- CS Univ Tokyo, Sch Publ Hlth, Dept Social and Prevent Epidemiol, Tokyo 1130033, Japan

stssasak@m.u-tokyo.ac.jp

SO Nutrition Research, (DEC 2008) Vol. 28, No. 12, pp. 816-824. CODEN: NTRSDC. ISSN: 0271-5317.

DT Article LA English

ED Entered STN: 11 Feb 2009

Last Updated on STN: 11 Feb 2009

- L4 ANSWER 17 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2009:107878 BIOSIS
- DN PREV200900107878
- TI Coexpression of Elo-like enzyme and Delta 5, Delta 4-desaturases derived from Thraustochytrium aureum ATCC
- 34304 and the production of DHA and DPA in Pichia pastoris.

 AU Kang, Dong-Hoon; Anbu, Periasamy; Kim, Won-Ho; Hur, Byung-Ki [Reprint Author]
- CS Inha Univ, Dept Biol Engn, Inchon 402751, South Korea
- biosys@inha.ac.kr
- SO Biotechnology and Bioprocess Engineering, (JUL-AUG 2008) Vol. 13, No. 4, pp. 483-490.
 ISSN: 1226-8372.
- DT Article
- LA English
- OS GenBank-AF391543; EMBL-AF391543; DDBJ-AF391543; GenBank-CS486301; EMBL-CS486301; DDBJ-CS486301
- ED Entered STN: 11 Feb 2009 Last Updated on STN: 11 Feb 2009
- L4 ANSWER 18 OF 85 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
- AN 2009:79244 BIOSIS
- DN PREV200900079244
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- CS NIA, Brain Physiol and Metab Sec, Natl Inst Hlth, Bethesda, MD 20892 USA mikii@mail.nih.gov
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- CS Univ Tasmania, Natl Ctr Marine Conservat and Resource Sustainabil, Launceston, Tas 7250, Australia millerm@crop.cri.nz
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- CS Univ Cincinnati, Coll Med, Dept Psychiat, 231 Albert Sabin Way, Cincinnati, OH 45267 USA robert.mcnamar@osvchiatrv.uc.edu
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- ED Entered STN: 27 Nov 2008
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SINCE FILE TOTAL ENTRY SESSION 121.61 121.83

FULL ESTIMATED COST

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